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ANGIOGRAPHIC EVALUATION AND CLINICAL RISK FACTORS OF CORONARY ARTERY DISEASE IN PATIENTS WITH PERIPHERAL ARTERY DISEASE.

Poster Contributions

Hall C

Sunday, March 30, 2014, 9:45 a.m.-10:30 a.m.

Session Title: Carotid and Endovascular Intervention

Abstract Category: 37. TCT@ACC-i2: Carotid and Endovascular Intervention

Presentation Number: 2106-301

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Background: Although it has been already reported that patients with peripheral artery disease (PAD) have increased risk of cardiovascular events, not all of the PAD patients have evaluated coronary artery disease (CAD). In this study, we sought to investigate the angiographic presence, severity and clinical risk factors of CAD in patients with PAD.

Methods: This study was a multicenter retrospective observational study. From April 2002 to March 2009, a total of 455 patients who underwent endovascular treatment (EVT) and coronary angiography were enrolled. The outcome measures were presence of CAD and multivessel disease. Critical limb ischemia (CLI) was defined as Rutherford class IV / V / VI.

Results: Mean age was 70.0 ± 9.2 years old. Seventy-four percent were male, 57% had diabetes, 24% underwent hemodialysis and 25% were

CLI patients. Mean ankle-brachial index before procedure was 0.58 ± 0.26 . CAD was found in 284 patients (62.4%), and 147 patients (32.3%) had multivessel disease. Multivariate logistic regression analysis revealed that diabetes, age and presence of CLI were independent predictors of CAD.

Conclusion: Sixty-two percent of PAD patients had CAD and 32.3% had multivessel disease. In patients with PAD, diabetes, age, and presence of CLI were the strong predictors of CAD. PAD patients who have these predictors should have evaluation of CAD.

Predictors of Coronary Artery Disease in patients with Peripheral Artery Disease

characteristic	Univariate Analysis		Multivariate Analysis	
	HR (95% CI)	P Value	HR (95% CI)	P Value
Age	1.03 (1.01-1.05)	0.006	1.04 (1.01-1.06)	0.002
Diabetes	1.7 (1.16-2.5)	0.007	1.83 (1.22-2.75)	0.004
CKD	1.51 (1.02-2.21)	0.037		
CLI	2.16 (1.35-3.47)	0.001	1.89 (1.17-3.07)	0.01

Predictors of multi vessel disease in patients with Peripheral Artery Disease

characteristic	Univariate Analysis		Multivariate Analysis	
	HR (95% CI)	P Value	HR (95% CI)	P Value
Diabetes	1.8 (1.2-2.71)	0.005	1.75 (1.16-2.64)	0.007
CKD	1.54 (1.03-2.32)	0.037	1.5 (0.99-2.26)	0.053

CKD = chronic kidney disease, CLI = critical limb ischemia